

**CERTIFICATE OF MAILING:** I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on June 26, 2001



*Ruth Montalvo*

/ Ruth Montalvo Date: June 26, 2001

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

EXAMINER: UNASSIGNED ATTY DOCKET #: 500582.20016  
APPLICANTS: David R. SMITH, et al. GROUP ART UNIT: UNASSIGNED  
SERIAL NO.: 09/729,562  
FILING DATE: December 4, 2000  
TITLE: SYSTEM AND METHOD FOR SINGLE-ENDED LINE ANALYSIS  
FOR QUALIFICATION AND MAPPING

Commissioner for Patents  
Washington, D.C. 20231

**DECLARATION OF PATTY TAVERNA**

Sir:

I, Patty Tavernia, hereby declare:

1. I reside at 6690 Springhill Drive, Frederick, Maryland, 21702.
2. I am employed by Acterna, LLC as a legal assistant. I have worked for Acterna, LLC for 8 years. I report to Mr. Phil Florenzo, Corporate Counsel for Acterna, LLC.
3. Sometime on or after February 13, 2001, Mr. Florenzo asked me to send a Combined Declaration and Power of Attorney (hereinafter "Declaration") to each of the inventors of the invention entitled: "SYSTEM AND METHOD FOR SINGLE-ENDED LINE ANALYSIS FOR QUALIFICATION AND MAPPING" for their execution. I sent the Declaration to Mr. Paul Francis Wyar who executed it and returned it to me. Then, I sent the Declaration to Mr. Richard Liberman who executed it on February 15, 2001 and returned it to me. I then sent the Declaration to Mr. David R. Smith and Mr. David Johnson. Both of them executed the Declaration on February 19, 2001 and they then returned it to me.

Declaration of Patty Tavernia

09/729,562

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4. On February 19, 2001, I called Mr. Duane Eareckson at his home to inform him that I was sending the Declaration to him for his execution. On February 20, 2001, I sent a Federal Express package Duane Eareckson which included a cover letter, the Declaration and a self-addressed Federal Express envelope. Copies of the letter, the Declaration, the Federal Express shipping slip for the package and the Federal Express shipping slip for the self-addressed Federal Express return envelope are attached hereto in Exhibit A.

5. I tracked the package that I sent to Duane Eareckson and found out that it was delivered to Duane Eareckson on February 23, 2001 at 11:07 a.m. and that Duane Eareckson signed the Federal Express slip acknowledging receipt of the package.

6. On May 8, 2001, I called Duane Eareckson's home at approximately 11:00 a.m. My call was not answered and I left a message on Duane Eareckson's answering machine to call me back regarding the status of the documents I sent to him. Duane Eareckson did not return my call.

7. On May 8, 2001, I sent a second Federal Express package including a letter to Duane Eareckson and copies of the documents that I originally sent to him in case he had misplaced the originals. Copies of this second letter, the Federal Express shipping slip for this package and the Federal Express shipping slip for the self-addressed Federal Express return envelope included in this package are attached hereto in Exhibit B.

8. I tracked the package I sent to Duane Eareckson on May 8, 2001 and found out that it was delivered to him on May 9, 2001 at 9:30 a.m.

9. On May 10, 2001, I called Duane Eareckson's home at approximately 10:00 a.m. My call was not answered and I left a message on Duane Eareckson's home answering machine asking him to confirm that he had received the second package. Duane Eareckson did not return my call.

Declaration of Patty Tavernia

09/729,562

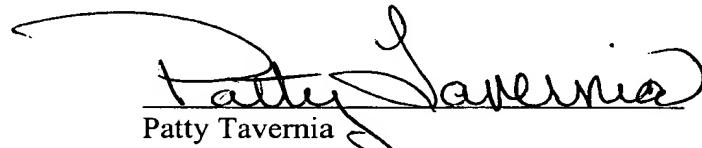
Page 3

10. On May 14, 2001, I called Duane Eareckson's home at approximately 2:00 p.m. My call was not answered and I left a message on Duane Eareckson's home answering machine requesting that he please call me to confirm that he had received the second package. Duane Eareckson did not return my call.

11. On May 22, 2001, I again called Duane Eareckson's home at approximately 5:28 p.m. My call was not answered and I left a message on Duane Eareckson's home answering machine asking Duane Eareckson to give me a call. Duane Eareckson did not return my call

12. Duane Eareckson has not yet returned my May 22, 2001 telephone call nor any other call from me. In addition, Duane Eareckson has not returned an executed Declaration in connection with the above-identified application to neither Acterna, LLC nor myself.

I declare under the penalty of perjury under the laws of the United States that the foregoing is true and correct and that this Declaration was executed in Germantown, Maryland on June 22, 2001.

  
Patty Tavernia



February 20, 2001

JUN 29 2001

Hi Duane,

Thanks so much for your assistance in signing this. Per our phone conversation, I am enclosing a Federal Express envelope and shipping slip for your convenience. All you will have to do is just drop it off at a Federal Express drop.

Thanks again for your assistance.

Patty Tavernia  
301-353-1550, extension 1005

# FedEx. USA Airbill

FedEx  
Tracking  
Number

8246 3109 7270

Sender's Copy

From Please print and press hard.

Date **2-20-01** Sender's FedEx  
Account Number **1615-7732-4**

Sender's Name **Patty Tavernia**

Phone **(301) 353-1550**

Company **T T C CORPORATE**

Address **20410 OBSERVATION DR**

Dept/Floor/Subs/Room

City **GERMANTOWN** State **MD** ZIP **20876**

Your Internal Billing Reference

First 24 characters will appear on invoice.

OPTIONAL

To **Recipient's Name** **Patty Tavernia** Phone **301 353-1550**

Company **Acterna**

Address **10400 Observation Drive**

To "HOLD" at FedEx location, print FedEx address.

We cannot deliver to P.O. boxes or P.O. ZIP codes.

**MS - Y** Germantown MD ZIP **20876**

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at [www.fedex.com](http://www.fedex.com)

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

**0168426162**

# FedEx. USA Airbill

FedEx  
Tracking  
Number

8246 3109 7280

Sender's Copy

From Please print and press hard.

Date **2-20-01** Sender's FedEx  
Account Number **1615-7732-4**

Sender's Name **Patty Tavernia**

Phone **(301) 353-1550**

Company **T T C CORPORATE**

Address **20410 OBSERVATION DR**

Dept/Floor/Subs/Room

City **GERMANTOWN** State **MD** ZIP **20876**

Your Internal Billing Reference

First 24 characters will appear on invoice.

OPTIONAL

To **Recipient's Name** **Duane Eareckson** Phone **(1804) 386-4469**

Company

Address **2521 Link Road**

We cannot deliver to P.O. boxes or P.O. ZIP codes.

**City** **Lynchburg** **State** **VA** **ZIP** **24503**

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at [www.fedex.com](http://www.fedex.com)

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

**0168426162**

## 4a Express Package Service

FedEx Priority Overnight  
Next business morning

FedEx Standard Overnight  
Next business afternoon

FedEx First Overnight  
Earliest next business morning  
delivery to select locations

FedEx 2Day®  
Second business day

FedEx Express Saver®  
Third business day

\* FedEx Envelope/Letter Rate not available  
Minimum charge: One-pound rate

## 4b Express Freight Service

FedEx 1Day Freight®  
Next business day

FedEx 2Day Freight  
Second business day

FedEx 3Day Freight  
Third business day

\* Call for Confirmation:

## 5 Packaging

FedEx  
Envelope/Letter®

FedEx  
Packet®  
Limited availability

FedEx  
Pak®

\* Declared value limit \$500  
Other Pkg.  
Includes FedEx Box, FedEx  
Tube, and customer pkg.

## 6 Special Handling

SATURDAY Delivery  
Restrictions

SUNDAY Delivery  
Restrictions

HOLD Weekly  
at FedEx Location

HOLD Saturday  
at FedEx Location

Available only for FedEx Priority  
Overnight and FedEx 2Day

Available only for FedEx Priority  
Overnight to select ZIP codes

Not available with  
FedEx First Overnight

Available only for FedEx Priority  
Overnight and FedEx 2Day  
to select locations

Does this shipment contain dangerous goods?

No

Yes  
As per attached  
Shipper's Declaration

One box must be checked.

Yes  
Shipper's Declaration  
not required

Dangerous Goods cannot be shipped in FedEx packaging.

Dry Ice  
Dry Ice & UN 1845

Cargo Aircraft Only

## 7 Payment Bill to:

Sender  
Acct. No. in Section  
1 will be billed.

Recipient

Third Party

Credit Card

Cash/Check

FedEx Acct. No.  
Credit Card No.

Exp. Date

Total Packages

Total Weight

Total Declared Value†

\$ **.00**

FedEx Use Only

## 8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature  
and agree to indemnify and hold us harmless from any resulting claims.

**403**

## 4a Express Package Service

FedEx Priority Overnight  
Next business morning

FedEx Standard Overnight  
Next business afternoon

FedEx First Overnight  
Earliest next business morning  
delivery to select locations

FedEx 2Day®  
Second business day

FedEx Express Saver®  
Third business day

\* FedEx Envelope/Letter Rate not available  
Minimum charge: One-pound rate

## 4b Express Freight Service

FedEx 1Day Freight®  
Next business day

FedEx 2Day Freight  
Second business day

FedEx 3Day Freight  
Third business day

\* Call for Confirmation:

## 5 Packaging

FedEx  
Envelope/Letter®

FedEx  
Packet®  
Limited availability

FedEx  
Pak®

\* Declared value limit \$500  
Other Pkg.  
Includes FedEx Box, FedEx  
Tube, and customer pkg.

## 6 Special Handling

SATURDAY Delivery

SUNDAY Delivery

HOLD Weekly  
at FedEx Location

HOLD Saturday  
at FedEx Location

Restrictions

Restrictions

Not available with  
FedEx First Overnight

Restrictions

Available only for FedEx Priority  
Overnight and FedEx 2Day

Available only for FedEx Priority  
Overnight to select ZIP codes

Not available with  
FedEx First Overnight

Available only for FedEx Priority  
Overnight and FedEx 2Day  
to select locations

Does this shipment contain dangerous goods?

No

Yes  
As per attached  
Shipper's Declaration

One box must be checked.

Yes  
Shipper's Declaration  
not required

Dangerous Goods cannot be shipped in FedEx packaging.

Dry Ice  
Dry Ice & UN 1845

Cargo Aircraft Only

## 7 Payment Bill to:

Sender  
Acct. No. in Section  
1 will be billed.

Recipient

Third Party

Credit Card

Cash/Check

FedEx Acct. No.  
Credit Card No.

Exp. Date

Total Packages

Total Weight

Total Declared Value†

\$ **.00**

FedEx Use Only

\* Our liability is limited to \$100 unless you declare a higher value. See back for details.

## 8 Release Signature

Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature  
and agree to indemnify and hold us harmless from any resulting claims.

**403**

SRS 800 • Rev. Date 7/00 • Part #155913S • ©1994-2000 FedEx • PRINTED IN U.S.A.



May 8, 2001

Duane,

Per my voice mails. I Federal Expressed a package to you on February 20. The package contained the combined *Declaration and Power of Attorney* and an *Assignment* for the US Patent Application for a SYSTEM AND METHOD FOR SINGLE-ENDED LINE ANALYSIS FOR QUALIFICATION AND MAPPING. This document had the original signatures by other inventors. I did a tracking on it and it was delivered to you on February 23. Please return the **original documents** to me in the enclosed envelope that I have provided for your convenience, as soon as possible. It is imperative that I get it back to our outside legal counsel quickly.

I am enclosing copies so that this will familiarize you with the documents that were sent to you.

If you cannot locate the original documents, please call me. I will have to contact our counsel and obtain new originals. Then, I will have to contact the inventors again and start the process a second time. This is very time consuming, therefore, I will need notice quickly from you if in fact, the documents cannot be located.

Please call me if you have any questions. I can be reached at (301)353-1550, extension 1005.

Thanks,  
Patty

**FedEx** USA Airbill  
Express

FedEx  
Tracking  
Number

8267 2462 9872

From  Please print and press hard.  
Date **5/8/01** Sender's FedEx Account Number **1615-7732-4**

Sender's Name **Patty Tavernia** Phone **(301) 353-1550**

Company **ACTERNA**

Address **20410 OBSERVATION DR** Dept/Floor/Suite/Room

City **GERMANTOWN** State **MD** ZIP **20876**

Your Internal Billing Reference **6610** OPTIONAL

First 24 characters will appear on invoice.

To Recipient's Name **Duane Eareckson** Phone **(804) 386-4469**

Company \_\_\_\_\_

Address To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

**2521 Link Road**

Dept/Floor/Suite/Room

City **Lynchburg**, State **VA** ZIP **24503**

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at [www.fedex.com](http://www.fedex.com)

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0170633543

Delivered  
9/9/01 5:00 AM

**FedEx** USA Airbill  
Express

FedEx  
Tracking  
Number

8267 2463 0258

From  Please print and press hard.  
Date **5/9/01** Sender's FedEx Account Number **1615-7732-4**

Sender's Name **Patty Tavernia** Phone **(301) 353-1550**

Company **ACTERNA**

Address **20410 OBSERVATION DR** Dept/Floor/Suite/Room

City **GERMANTOWN** State **MD** ZIP **20876**

Your Internal Billing Reference **6610** OPTIONAL

To Recipient's Name **Patty Tavernia** Phone **(301) 353-1550**

Company **Acterna**

Address To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

**20410 Observation Drive**

Dept/Floor/Suite/Room

City **Germantown**, State **MD** ZIP **20876**

Peel and Stick FedEx USA Airbill

See back for application instructions.

Questions? Visit our Web site at [www.fedex.com](http://www.fedex.com)

or call 1-800-Go-FedEx® (800)463-3339.

By using this Airbill you agree to the service conditions on the back of this Airbill and in our current Service Guide, including terms that limit our liability.

0170633543

**Sender's Copy**

**4a Express Package Service**

FedEx Priority Overnight  
Next business morning

FedEx Standard Overnight  
Next business afternoon

**Packages up to 150 lbs.**

Delivery commitment may be later in some areas.  
 FedEx First Overnight  
Earliest next business morning delivery to select locations

FedEx 2Day\*  
Second business day

FedEx Express Saver\*  
Third business day

\* FedEx Envelope/Letter Rate not available  
Minimum charge: One-pound rate

**4b Express Freight Service**

FedEx 1Day Freight\*  
Next business day

FedEx 2Day Freight  
Second business day

**Packages over 150 lbs.**  
Delivery commitment may be later in some areas.  
 FedEx 3Day Freight  
Third business day

\* Call for Confirmation:

**5 Packaging**

FedEx Envelope/Letter\*  
Includes FedEx Box, FedEx Tube, and customer pkg.

FedEx Pak\*

\* Declared value limit \$500

Other Pkg.  
Includes FedEx Box, FedEx Tube, and customer pkg.

**6 Special Handling**

SATURDAY Delivery  
RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

SUNDAY Delivery  
RESTRICTIONS Available only for FedEx Priority Overnight to select ZIP codes

HOLD Weekday  
at FedEx Location  
RESTRICTIONS Not available for FedEx First Overnight

HOLD Saturday  
at FedEx Location  
RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

One box must be checked.

No  Yes  
As per attached  
Shipper's Declaration

Yes  
Shipper's Declaration  
not required

Dangerous Goods cannot be shipped in FedEx packaging.

Dry Ice  
Dry Ice, 3 UN 1845  
 Cargo Aircraft Only

**7 Payment Bill to:**

Enter FedEx Acct. No. or Credit Card No. below.

Sender  
Acct. No. in Section  
I will be billed.

Recipient

Third Party

Credit Card

Cash/Check

FedEx Acct. No.  
Credit Card No.

Exp.  
Date

Total Packages

Total Weight

Total Declared Value\*

\$ **.00**

FedEx Use Only

\* Our liability is limited to \$100 unless you declare a higher value. See back for details.

**8 Release Signature** Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

**402**

**Sender's Copy**

**4a Express Package Service**

FedEx Priority Overnight  
Next business morning

FedEx Standard Overnight  
Next business afternoon

**Packages up to 150 lbs.**

Delivery commitment may be later in some areas.  
 FedEx First Overnight  
Earliest next business morning delivery to select locations

FedEx 2Day\*  
Second business day

FedEx Express Saver\*  
Third business day

\* FedEx Envelope/Letter Rate not available  
Minimum charge: One-pound rate

**4b Express Freight Service**

FedEx 1Day Freight\*  
Next business day

FedEx 2Day Freight  
Second business day

**Packages over 150 lbs.**  
Delivery commitment may be later in some areas.  
 FedEx 3Day Freight  
Third business day

\* Call for Confirmation:

**5 Packaging**

FedEx Envelope/Letter\*  
Includes FedEx Box, FedEx Tube, and customer pkg.

FedEx Pak\*

\* Declared value limit \$500

Other Pkg.  
Includes FedEx Box, FedEx Tube, and customer pkg.

**6 Special Handling**

SATURDAY Delivery  
RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

SUNDAY Delivery  
RESTRICTIONS Available only for FedEx Priority Overnight to select ZIP codes

HOLD Weekday  
at FedEx Location  
RESTRICTIONS Not available with FedEx First Overnight

HOLD Saturday  
at FedEx Location  
RESTRICTIONS Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

One box must be checked.

No  Yes  
As per attached  
Shipper's Declaration

Yes  
Shipper's Declaration  
not required

Dangerous Goods cannot be shipped in FedEx packaging.

Dry Ice  
Dry Ice, 3 UN 1845  
 Cargo Aircraft Only

**7 Payment Bill to:**

Enter FedEx Acct. No. or Credit Card No. below.

Sender  
Acct. No. in Section  
I will be billed.

Recipient

Third Party

Credit Card

Cash/Check

FedEx Acct. No.  
Credit Card No.

Exp.  
Date

Total Packages

Total Weight

Total Declared Value\*

\$ **.00**

FedEx Use Only

\* Our liability is limited to \$100 unless you declare a higher value. See back for details.

**8 Release Signature** Sign to authorize delivery without obtaining signature.

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

**402**

SRS 100 • Rev. Date 7/00 • Part #1559175 • ©1994-2000 FedEx • PRINTED IN U.S.A.



Atty. Docket No. 500582.20016

#3

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **System And Method for Single-Ended Line Analysis For Qualification And Mapping**, the specification of which

is attached hereto.

was filed on [Date Application was Filed] as Application Serial No. [Serial No.] and was amended on [Date of Amendment] (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

<u>Prior Foreign Application(s)</u>	<u>Priority Claimed</u>
-------------------------------------	-------------------------

(Number)	(Country)	(Day/Month/Year Filed)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

(Application Number)	(Filing Date)
----------------------	---------------

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

(Application Serial No.)	(Filing Date)	(Status-patented, pending, abandoned)
--------------------------	---------------	---------------------------------------

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Louis M. Heidelberger, Reg. No. 27,899; John W. Goldschmidt, Jr., Reg. No. 34,828; William J. McNichol, Jr., Reg. No. 31,179; R. Anthony Diehl, Reg. No. 38,432; Maryellen Feehery, Reg. No. 44,677; Alison B. Weisberg, Reg. No. 45,206; Carl H. Pierce, Reg. No. 45,730; Nanda P.B.A. Kumar, Reg. No. 44,853; Thomas J. McWilliams, Reg. No. 44,930; Matthew J. Esserman, Reg. No. 41,536; Frederick H. Colen, Reg. No. 28,061; W. Scott Railton, Reg. No. 23,039; Gene A. Tabachnick, Reg. No. 33,801; Maria N. Rullo, Reg. No. 37,433; Barry J. Coyne Reg. No. 43,566; Kirsten R. Rydstrom, Reg. No. 38,603; Paul D. Bangor, Jr., Reg. No. 34,768; Charles H. Dougherty, Jr., Reg. No. 42,494; Cheryl L. Gastineau, Reg. No. 39,469; Ian K. Samways, Reg. No. 36,664; Marc J. Farrell, Reg. No. 37,826; Stanley P. Fisher, Reg. No. 24,344; Robert D. Kucler, Reg. No. 45,908; Juan Carlos A. Marquez, Reg. No. 22,077; Gerald Kiel, Reg. No. 25,116; Eugene LeDonne, Reg. No. 35,930; Jules Goldberg, Reg. No. 24,408; Lloyd McAulay, Reg. No. 20,423; Harold Nissen, Reg. No. 17,283; Arthur Dresner, Reg. No. 24,403; Stephen Chin, Reg. No. 39,938; Mark Montague, Reg. No. 36,612; Samir Patel, Reg. No. 44,998 and Mary E. Buckles, Reg. No. 31,907.

Address all telephone calls to Eugene LeDonne at telephone number (212) 521-5402

Address all correspondence to: Eugene LeDonne, Esq.  
REED SMITH LLP  
375 Park Avenue, 17<sup>th</sup> Floor  
New York, NY 10152

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature \_\_\_\_\_ Date: \_\_\_\_\_  
Full name of sole or first inventor David R. Smith  
Residence Virginia  
Citizenship United States  
Post Office Address 2150 Laurel Woods Dr.  
Salem, VA 24153

Inventor's Signature \_\_\_\_\_ Date: \_\_\_\_\_  
Full name of second inventor Richard Liberman  
Residence Maryland  
Citizenship United States  
Post Office Address 7127 Rivers Edge Road  
Columbia, MD 21044

Inventor's Signature \_\_\_\_\_ Date: \_\_\_\_\_  
Full name of third inventor Duane Eareckson  
Residence Virginia  
Citizenship United States  
Post Office Address 2521 Link Road  
Lynchburg, VA 24503

Reed Smith LLP  
375 Park Avenue, 17<sup>th</sup> Floor  
New York, NY 10152  
(212) 521-5400

Inventor's Signature \_\_\_\_\_ Date: \_\_\_\_\_

Full name of third inventor David Johnson  
Residence Virginia  
Citizenship United States  
Post Office Address 560 Downing Street  
Roanoke, VA 24019

Inventor's Signature \_\_\_\_\_  
Full name of third inventor Paul Francis Wyar  
Residence Maryland  
Citizenship United States  
Post Office Address 5824 Woodville Road  
Mt. Airy, MD 21771

Reed Smith LLP  
375 Park Avenue, 17<sup>th</sup> Floor  
New York, NY 10152  
(212) 521-5400

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **System And Method for Single-Ended Line Analysis For Qualification And Mapping**, the specification of which

is attached hereto.

was filed on December 4, 2000 as Application Serial No. 09/729,562.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

**Prior Foreign Application(s)**

**Priority Claimed**

<b>(Number)</b>	<b>(Country)</b>	<b>(Day/Month/Year Filed)</b>	<input type="checkbox"/> Yes	<input type="checkbox"/> No
-----------------	------------------	-------------------------------	------------------------------	-----------------------------

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

<b>(Application Number)</b>	<b>(Filing Date)</b>
-----------------------------	----------------------

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<b>(Application Serial No.)</b>	<b>(Filing Date)</b>	<b>(Status-patented, pending, abandoned)</b>
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

Louis M. Heidelberger, Reg. No. 27,899; John W. Goldschmidt, Jr., Reg. No. 34,828; William J. McNichol, Jr., Reg. No. 31,179; R. Anthony Diehl, Reg. No. 38,432; Maryellen Feehery, Reg. No. 44,677; Alison B. Weisberg, Reg. No. 45,206; Carl H. Pierce, Reg. No. 45,730; Nanda P.B.A. Kumar, Reg. No. 44,853; Thomas J. McWilliams, Reg. No. 44,930; Matthew J. Esserman, Reg. No. 41,536; Frederick H. Colen, Reg. No. 28,061; W. Scott Railton, Reg. No. 23,039; Gene A. Tabachnick, Reg. No. 33,801; Maria N. Rullo, Reg. No. 37,433; Barry J. Coyne Reg. No. 43,566; Kirsten R. Rydstrom, Reg. No. 38,603; Paul D. Bangor, Jr., Reg. No. 34,768; Charles H. Dougherty, Jr., Reg. No. 42,494; Cheryl L. Gastineau, Reg. No. 39,469; Ian K. Samways, Reg. No. 36,664; Marc J. Farrell, Reg. No. 37,826; Stanley P. Fisher, Reg. No. 24,344; Robert D. Kucler, Reg. No. 45,908 Juan Carlos A. Marquez, Reg. No. 22,077; Gerald Kiel, Reg. No. 25,116; Eugene LeDonne, Reg. No. 35,930; Jules Goldberg, Reg. No. 24,408; Lloyd McAulay, Reg. No. 20,423; Harold Nissen, Reg. No. 17,283; Arthur Dresner, Reg. No. 24,403; Stephen Chin, Reg. No. 39,938; Mark Montague, Reg. No. 36,612; Samir Patel, Reg. No. 44,998 and Mary E. Buckles, Reg. No. 31,907.

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Address all correspondence to: **Eugene LeDonne, Esq.**  
**REED SMITH LLP**  
**375 Park Avenue, 17<sup>th</sup> Floor**  
**New York, NY 10152**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Inventor's Signature	____	Date: _____
Full name of sole or first inventor	David R. Smith	
Residence	2150 Laurel Woods Dr., Salem, Virginia 24153	
Citizenship	United States	
Post Office Address	SAME AS ABOVE	

Inventor's Signature \_\_\_\_\_ Date: \_\_\_\_\_  
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Citizenship United States  
Post Office Address SAME AS ABOVE

Inventor's Signature	<hr/>	
Full name of third inventor	Duane Eareckson	Date: _____
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Citizenship	United States	
Post Office Address	SAME AS ABOVE	

**Reed Smith LLP**  
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Inventor's Signature  
Full name of fourth inventor  
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Citizenship  
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New York, NY 10152  
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**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **System And Method for Single-Ended Line Analysis For Qualification And Mapping**, the specification of which

is attached hereto.

was filed on December 4, 2000 as Application Serial No. 09/729,562.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

<u>Prior Foreign Application(s)</u>	<u>Priority Claimed</u>
(Number) _____	<input type="checkbox"/> Yes <input type="checkbox"/> No (Country) _____ (Day/Month/Year Filed) _____

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below.

<hr/> (Application Number)	<hr/> (Filing Date)
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I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

<hr/> (Application Serial No.)	<hr/> (Filing Date)	<hr/> (Status-patented, pending, abandoned)
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I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

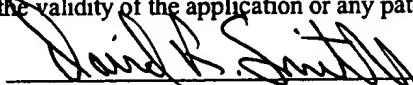
Louis M. Heidelberger, Reg. No. 27,899; John W. Goldschmidt, Jr., Reg. No. 34,828; William J. McNichol, Jr., Reg. No. 31,179; R. Anthony Diehl, Reg. No. 38,432; Maryellen Feehery, Reg. No. 44,677; Alison B. Weisberg, Reg. No. 45,206; Carl H. Pierce, Reg. No. 45,730; Nanda P.B.A. Kumar, Reg. No. 44,853; Thomas J. McWilliams, Reg. No. 44,930; Matthew J. Esserman, Reg. No. 41,536; Frederick H. Colen, Reg. No. 28,061; W. Scott Railton, Reg. No. 23,039; Gene A. Tabachnick, Reg. No. 33,801; Maria N. Rullo, Reg. No. 37,433; Barry J. Coyne Reg. No. 43,566; Kirsten R. Rydstrom, Reg. No. 38,603; Paul D. Bangor, Jr., Reg. No. 34,768; Charles H. Dougherty, Jr., Reg. No. 42,494; Cheryl L. Gastineau, Reg. No. 39,469; Ian K. Samways, Reg. No. 36,664; Marc J. Farrell, Reg. No. 37,826; Stanley P. Fisher, Reg. No. 24,344; Robert D. Kucler, Reg. No. 45,908; Juan Carlos A. Marquez, Reg. No. 22,077; Gerald Kiel, Reg. No. 25,116; Eugene LeDonne, Reg. No. 35,930; Jules Goldberg, Reg. No. 24,408; Lloyd McAulay, Reg. No. 20,423; Harold Nissen, Reg. No. 17,283; Arthur Dresner, Reg. No. 24,403; Stephen Chin, Reg. No. 39,938; Mark Montague, Reg. No. 36,612; Samir Patel, Reg. No. 44,998 and Mary E. Buckles, Reg. No. 31,907.

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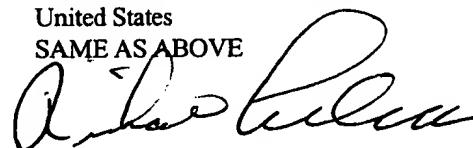
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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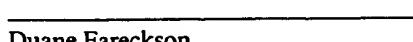
Date: 2/19/01

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Paul Francis Wyar

2/14/2001

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